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(54) OXIDE TYPE MAGNETIC MATERIAL OF LOW ELECTRIC POWER LOSS FOR USE IN HIGH TEMPERATURE RANGE

(57)Abstract:

PURPOSE: To provide titled magnetic material having Curie temperature higher than 250° C and the minimum power loss value with a high temperature range which is so high that such characteristics have been considered unattainable by using ferrite sintered body contg. specific composition such as MnO₂, ZnO, NiO, etc.

CONSTITUTION: A ferrite sintered body contains a basic composition consisting of 13W50mol% MnO, 0W20mol% ZnO (not including O), 0W26mol% (not including O) at least one of NiO, MgO and LiO; 45mol% or more the remaining Fe₂O₃. This is used to form an oxide magnetic material for high temperature range use and low electric power loss, characterized by the minimum value of the power loss at >150° C and Curie

temperature at $>150^{\circ}$ C. The material allows production of temperature sensitive ferrite for use at temperatures higher than 250° C which exceeds the available temperature range available of conventional market product.

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